

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 5817-7G

APPLICATION NO.  
Not Yet AssignedAPPLICANT  
Harrington et al.FILING DATE  
Concurrently HerewithGROUP  
Not Yet Assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
QN	AA2	5,707,830	01/13/1998	Calos	435	69.1	04/02/1997
	AB2	5,728,551	03/17/1998	Devine et al.	435	91.41	03/02/1995
	AC2	5,733,746	03/31/1998	Treco et al.	435	69.6	03/17/1995
	AD2	5,733,761	03/31/1998	Treco et al.	435	172.3	05/26/1995
	AE2	5,783,385	07/21/1998	Treco et al.	435	6	09/06/1994
	AF2	5,789,215	08/04/1998	Berns et al.	435	172.3	08/07/1997
	AG2	5,830,698	11/03/1998	Reff et al.	435	69.1	03/14/1997
QN	AH2	5,843,772	12/01/1998	Devine et al.	435	320.1	06/10/1996
	AI						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
QN	AL2	WO 93/09222	05/13/1993	WIPO			Yes No
	AM2	WO 94/12650	06/09/1994	WIPO			Yes No
	AN2	AU 71893/94	06/30/1994	Australia			Yes No
	AO2	FR 2 707 091	01/06/1995	France			Yes No
QN	AP2	WO 95/31560	11/23/1995	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

QN	AR	2	Barker, C.S., et al., "Activation of the Prolactin Receptor Gene by Promoter Insertion in a Moloney Murine Leukemia Virus-Induced Rat Thymoma," <i>J. Virol.</i> 66(11):6763-6768 (1992).
QN	AS	2	Black, A.C., et al., "HTLV-II Rex Binding and Activity Requires an Intact Splice Donor Site and a Specific RNA Secondary Structure," <i>AIDS Res. &amp; Human Retroviruses</i> 8:870 (1992).
QN	AT	2	Brikun, I., et al., "Analysis of CRP-Cytr Interactions at the <i>Escherichia coli</i> <i>udp</i> Promoter," <i>J. Bacteriology</i> 178(6):1614-1622 (March 1996).

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QW	AL3	WO 96/04391	02/15/1996	WIPO			Yes No
	AM3	WO 96/29411	09/26/1996	WIPO			Yes No
	AN3	EP 0 742 285 A1	11/13/1996	Europe			Yes No
	AO3	WO 98/14614 A1	04/09/1998	WIPO			Yes No
QW	AP3	WO 99/07389 A1	02/18/1999	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

QW	AR	3	Buckler, A.J., et al., "Exon amplification: A strategy to isolate mammalian genes based on RNA splicing," <i>Proc. Natl. Acad. Sci. USA</i> 88:4005-4009 (1991).
	AS	3	Butturini, A., et al., "Oncogenes in Human Leukemias," <i>Acta Haematologica</i> 78(suppl. 1):2-10 (1987).
QW	AT	3	Butturini, A., and Gale, R.P., "Oncogenes and Human Leukemias," <i>Intl. J. Cell Cloning</i> 6(1):2-24 (1988).

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Quany Nguyen

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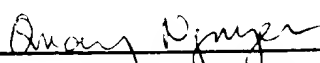
## FOREIGN PATENT DOCUMENTS

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QW	AL4	WO 99/15650 A1	04/01/1999	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

QW	AR	4	Chakraborty, A.K., et al., "Transforming function of proto-ras genes depends on heterologous promoters and is enhanced by specific point mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:2217-2221 (1991).
QW	AS	4	Chang, W., et al., "Enrichment of Insertional Mutants Following Retrovirus Gene Trap Selection," <i>Virology</i> 193:737-747 (1993).
QW	AT	4	Chow, W.-Y., and Berg, D.E., "Tn5lac1, a derivative of transposon Tn5 that generates conditional mutations," <i>Proc. Natl. Acad. Sci. USA</i> 85:6468-6472 (1988).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

GW	AR	5	Church, D.M., et al., "Isolation of genes from complex sources of mammalian genomic DNA using exon amplification," <i>Nature Genetics</i> 6:98-105 (1994).
GW	AS	5	Crabb, B.S., and Cowman, A.F., "Characterization of promoters and stable transfection by homologous and nonhomologous recombination in <i>Plasmodium falciparum</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 93:7289-7294 (July 1996).
GW	AT	5	Datson, M.A., et al., "Specific isolation of 3'-terminal exons of human genes by exon trapping," <i>Nucl. Acids Res.</i> 22(20):4148-4153 (1994).

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Bryan W. Meyer

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08/04/02

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EW	AR	6	Datson, N.A., <i>et al.</i> , "Scanning for genes in large genomic regions: cosmid-based exon trapping of multiple exons in a single product," <i>Nucl. Acids Res.</i> 24:1105-1111 (March 1996).
EW	AS	6	De Benedetti, A., and Rhoads, R.E., "A novel BK virus-based episomal vector for expression of foreign genes in mammalian cells," <i>Nucl. Acids Res.</i> 19:1925-1931 (1991).
EW	AT	6	Dickson, C., <i>et al.</i> , "Tumorigenesis by Mouse Mammary Tumor Virus: Proviral Activation of a Cellular Gene in the Common Integration Region <i>int-2</i> ," <i>Cell</i> 37:529-536 (1984).

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Quay Dwyer

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QW	AR	Z	Dostatni, N., <i>et al.</i> , "Use of Retroviral Vectors for Mapping of Splice Sites in Cottontail Rabbit Papillomavirus," <i>J. Gen. Virol.</i> 69:3093-3100 (1988).
QW	AS	Z	Duesberg, P.H., <i>et al.</i> , "Cancer Genes by Non-Homologous Recombination," In: <i>Boundaries between Promotion and Progression during Carcinogenesis</i> , Sudilovsky, O., <i>et al.</i> , eds., Plenum Press, New York, NY, pp. 197-211 (1991).
QW	AT	Z	Duyk, G.M., <i>et al.</i> , "Exon trapping: A genetic screen to identify candidate transcribed sequences in cloned mammalian genomic DNA," <i>Proc. Natl. Acad. Sci. USA</i> 87:8995-8999 (1990).

EXAMINER	<i>Quincy W. [Signature]</i>	DATE CONSIDERED	08/04/01
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
QW	AR	8	Frankel, W., <i>et al.</i> , "Retroviral insertional mutagenesis of a target allele in a heterozygous murine cell line," <i>Proc. Natl. Acad. Sci. USA</i> 82:6600-6604 (1985).
QW	AS	8	Fujisawa, J.-I., <i>et al.</i> , "Functional activation of the long terminal repeat of human T-cell leukemia virus type I by a <i>trans</i> -acting factor," <i>Proc. Natl. Acad. Sci. USA</i> 82:2277-2281 (1985).
QW	AT	8	Fung, Y.-K.T., <i>et al.</i> , "Activation of the Cellular Oncogene <i>c-erbB</i> by LTR Insertion: Molecular Basis for Induction of Erythroblastosis by Avian Leukosis Virus," <i>Cell</i> 33:357-368 (1983).

EXAMINER <span style="font-family: cursive;">Quay D. Ganger</span>	DATE CONSIDERED <span style="font-family: cursive;">08/16/19</span>
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

QW	AR	2	Goff, S.P., "Gene Isolation by Retroviral Tagging," <i>Meth. Enzymology</i> 152:469-481 (1987).
QW	AS	2	Hayward, W.S., et al., "Activation of a cellular onc gene by promoter insertion in ALV-induced lymphoid leukosis," <i>Nature</i> 290:475-480 (1981).
QW	AT	2	Jackson, I.J., "A reappraisal of non-consensus mRNA splice sites," <i>Nucl. Acids Res.</i> 19(14):3795-3798 (1991).

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Quincy Dwyer

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

QW	AR	10	Joshi, S., "A Putative Approach for Cloning 'Silent' Genes Using Retroviral Vectors," <i>Med. Hypoth.</i> 36:242-245 (1991).
QW	AS	10	Joyner, A.L., "Gene Targeting and Gene Trap Screens Using Embryonic Stem Cells: New Approaches to Mammalian Development," <i>BioEssays</i> 13:649-656 (1991).
QW	AT	10	Junejo, F., <i>et al.</i> , "Sequence analysis of the herpes simplex virus type 1 strain 17 variants 1704, 1705 and 1706 with respect to their origin and effect on the latency-associated transcript sequence," <i>J. Gen. Virol.</i> 72:2311-2315 (1991).

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Alan Dwyer

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QW	AR	11	King, W., et al., "Insertion Mutagenesis of Embryonal Carcinoma Cells by Retroviruses," <i>Science</i> 228:554-558 (1985).
QW	AS	11	Kreissig, S., et al., "Expression of peptides encoded by exons in cloned mammalian DNA," <i>Nucl. Acids Res.</i> 24:4358-4359 (November 1996).
QW	AT	11	Lemay, G., and Jolicoeur, P., "Rearrangement of a DNA sequence homologous to a cell-virus junction fragment in several Moloney murine leukemia virus-induced rat thymomas," <i>Proc. Natl. Acad. Sci. USA</i> 81:38-42 (1984).

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QW	AR	12	Liang, Y., <i>et al.</i> , "Effects of Alternate RNA Splicing on Glucokinase Isoform Activities in the Pancreatic Islet, Liver, and Pituitary," <i>J. Biol. Chem.</i> 266(11):6999-7007 (1991).
QW	AS	12	Lih, C.-J., <i>et al.</i> , "Rapid identification and isolation of transcriptionally active regions from mouse genomes," <i>Gene</i> 164:289-294 (1995).
QW	AT	12	Liu, Z., <i>et al.</i> , "The E6 Gene of Human Papillomavirus Type 16 Is Sufficient for Transformation of Baby Rat Kidney Cells in Cotransfection with Activated Ha-ras," <i>Virology</i> 201:388-396 (1994).

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Dorey W. Meyer

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QW	AR	13	Mölders, H., et al., "Integration of transfected LTR sequences into the c-rat proto-oncogene: activation by promoter insertion," <i>EMBO J.</i> 4(3):693-698 (1985).
QW	AS	13	Moore, R., et al., "Sequence, topography and protein coding potential of mouse int-2: a putative oncogene activated by mouse mammary tumour virus," <i>EMBO J.</i> 5(5):919-924 (1986).
QW	AT	13	Müller, R., and Müller, D., "Co-transfection of normal NIH/3T3 DNA and retroviral LTR sequences: a novel strategy for the detection of potential c-onc genes," <i>EMBO J.</i> 3(5):1121-1127 (1984).

EXAMINER

Quay Wenger

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QW	AR	14	Muth, K., et al., "Disruption of Genes Regulated During Hematopoietic Differentiation of Mouse Embryonic Stem Cells," <i>Develop. Dynamics</i> 212:277-283 (June 1998).
EW	AS	14	Neel, B.G., et al., "Molecular Analysis of the c-myc Locus in Normal Tissue and in Avian Leukosis Virus-Induced Lymphomas," <i>J. Virol.</i> 44(1):158-166 (1982).
FW	AT	14	Nicolas, J.-F., and Rubenstein, J.L.R., "Retroviral Vectors," In: <i>Vectors: A Survey of Molecular Cloning Vectors and Their Uses</i> , Rodriguez, R.L., et al., eds., Butterworths Pubs., Stoneham, MA, pp. 493-513 (1988).

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QW	AR	15	Nilsen, T.W., <i>et al.</i> , "c-erbB Activation in ALV-Induced Erythroblastosis: Novel RNA Processing and Promoter Insertion Result in Expression of an Amino-Truncated EGF Receptor," <i>Cell</i> 41:719-726 (1985).
QW	AS	15	Niwa, H., <i>et al.</i> , "An Efficient Gene-Trap Method Using Poly A Trap Vectors and Characterization of Gene-Trap Events," <i>J. Biochem.</i> 113:343-349 (1993).
QW	AT	15	Nottenburg, C., and Varmus, H.E., "Features of the Chicken c-myc Gene That Influence the Structure of c-myc RNA in Normal Cells and Bursal Lymphomas," <i>Mol. Cell. Biol.</i> 6(8):2800-2806 (1986).

EXAMINER

Avery W. [Signature]

DATE CONSIDERED

08/01/91

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
5817-7GAPPLICATION NO.  
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Harrington *et al.*FILING DATE  
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

QW	AR	16	Nouvel, P., "The mammalian genome shaping activity of reverse transcriptase," <i>Genetica</i> 93:191-201 (1994).
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EXAMINER

Quay Nguyen

DATE CONSIDERED

08/04/91

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QW	AR	17	Payne, G.S., et al., "Multiple arrangements of viral DNA and an activated host oncogene in bursal lymphomas," <i>Nature</i> 295:209-215 (1982).
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EXAMINER

Cathy W. Jones

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QW	AR	18	Reinhart, T.A., et al., "RNA Splice Site Utilization by Simian Immunodeficiency Viruses Derived from Sooty Mangabey Monkeys," <i>Virology</i> 224:338-344 (October 1, 1996).
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EXAMINER

Quay W. Meyer

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QW	AR	19	Segal, D., et al., "Genetic Transformation of <i>Drosophila</i> Cells in Culture by P Element-Mediated Transposition," <i>Somatic Cell and Mol. Genetics</i> 22(2):159-165 (March 1996).
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Emily H. H. H.

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QW	AR	20	Shin, S., and Steffen, D.L., "Frequent activation of the <i>lck</i> gene by promoter insertion and aberrant splicing in murine leukemia virus-induced rat lymphomas," <i>Oncogene</i> 8:141-149 (1993).
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Quincy Dwyer

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QW	AR	21	Steffen, D., "Provirus are adjacent to c-myc in some murine leukemia virus-induced lymphomas," <i>Proc. Natl. Acad. Sci. USA</i> 81:2097-2101 (1984).
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GW	AR	23	van Ooyen, A., and Nusse, R., "Structure and Nucleotide Sequence of the Putative Mammary Oncogene <i>int-1</i> ; Proviral Insertions Leave the Protein-Encoding Domain Intact," <i>Cell</i> 39:233-240 (1984).
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GW	AT	23	Westphal, E.M., <i>et al.</i> , "A System for Shuttling 200-kb BAC/PAC Clones into Human Cells: Stable Extrachromosomal Persistence and Long-Term Ectopic Gene Activation," <i>Human Gene Ther.</i> 9:1863-1873 (September 1998).

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Quincy W. Meyer

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QW	AR	24	Xiong, J.-W., <i>et al.</i> , "Large-Scale Screening for Developmental Genes in Embryonic Stem Cells and Embryoid Bodies Using Retroviral Entrapment Vectors," <i>Develop. Dynamics</i> 212:181-197 (June 1998).
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QW	AT	24	Dialog File 351, Derwent WPI English language abstract for FR 2 707 091.

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QW	AR	25	Drug Discovery News, "Lexicon Genetics, Inc.," <i>Genetic Engin. News</i> 19:35 (March 1999).
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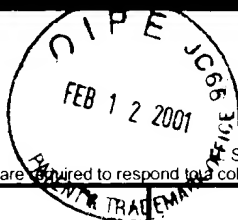
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<b>Application Number</b>	<b>09/484,895</b>
<b>Filing Date</b>	<b>January 18, 2000</b>
<b>First Named Inventor</b>	<b>Harrington, John J.</b>
Group Art Unit	<b>1632</b>
Examiner Name	<b>Nguyen, Q.</b>
Attorney Docket Number	<b>0221-0003G</b>

(use as many sheets as necessary)

Sheet **2** of **2**

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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Signature

*Lee D. Green*

Date  
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Sheet 1 of 1

<b>Application Number</b>	<b>09/484,895</b>
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<b>Attorney Docket Number</b>	<b>0221-0003G</b>

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